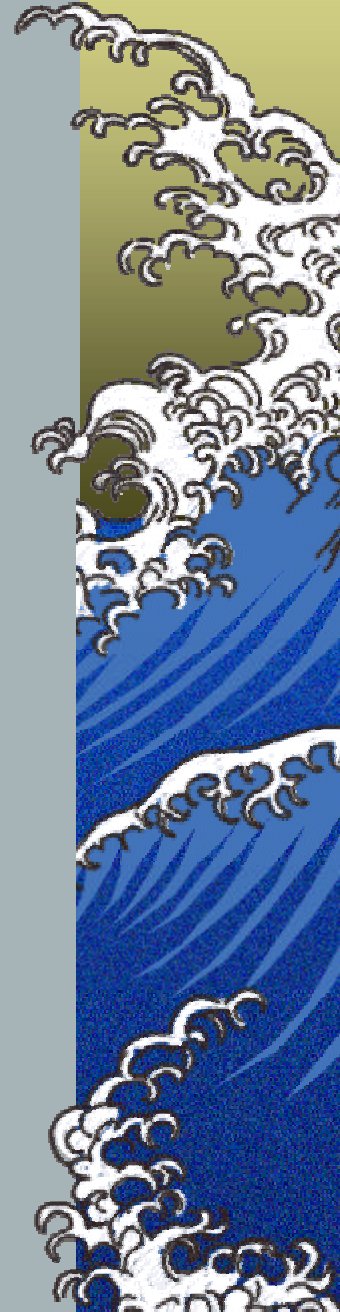
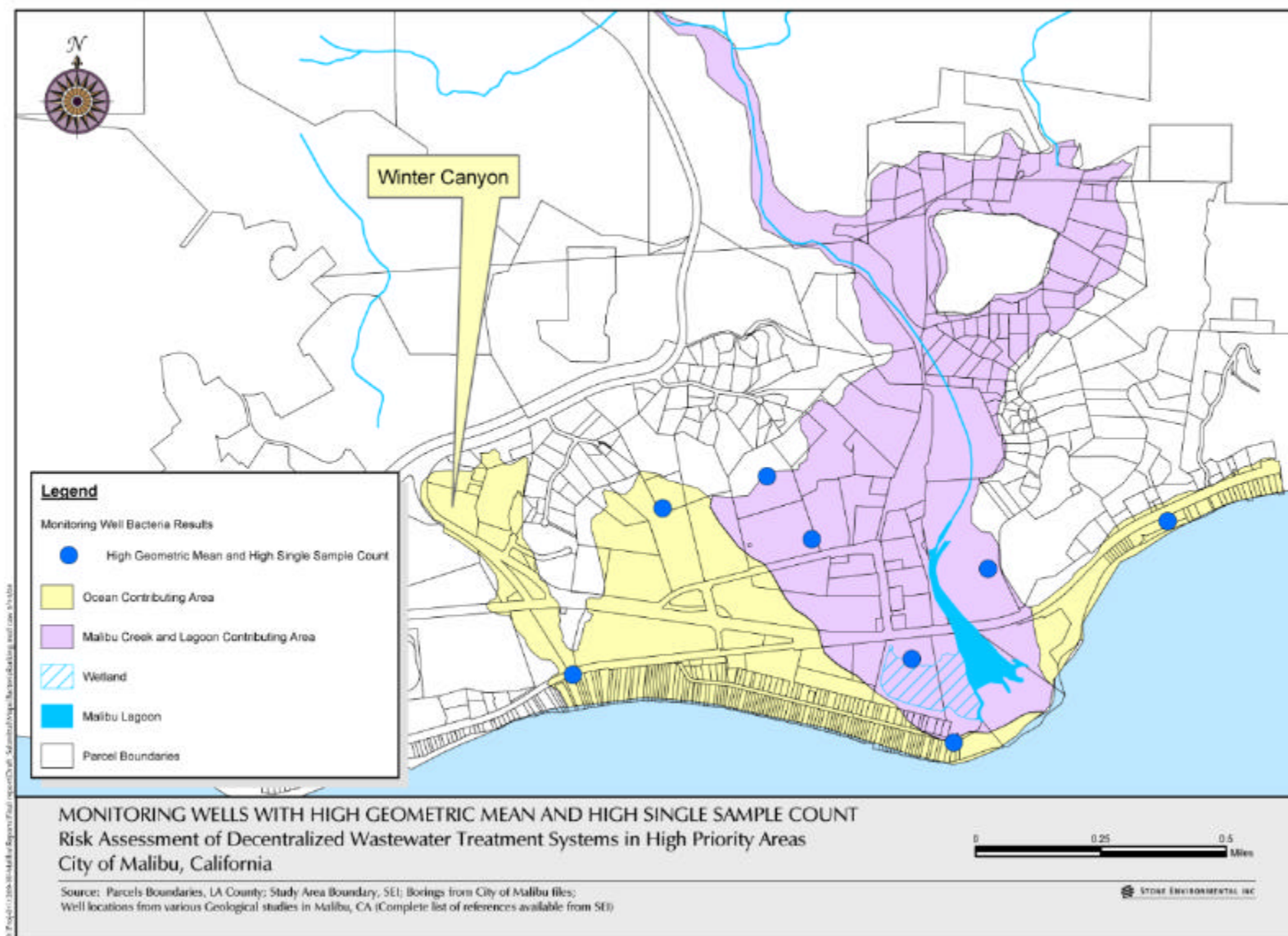
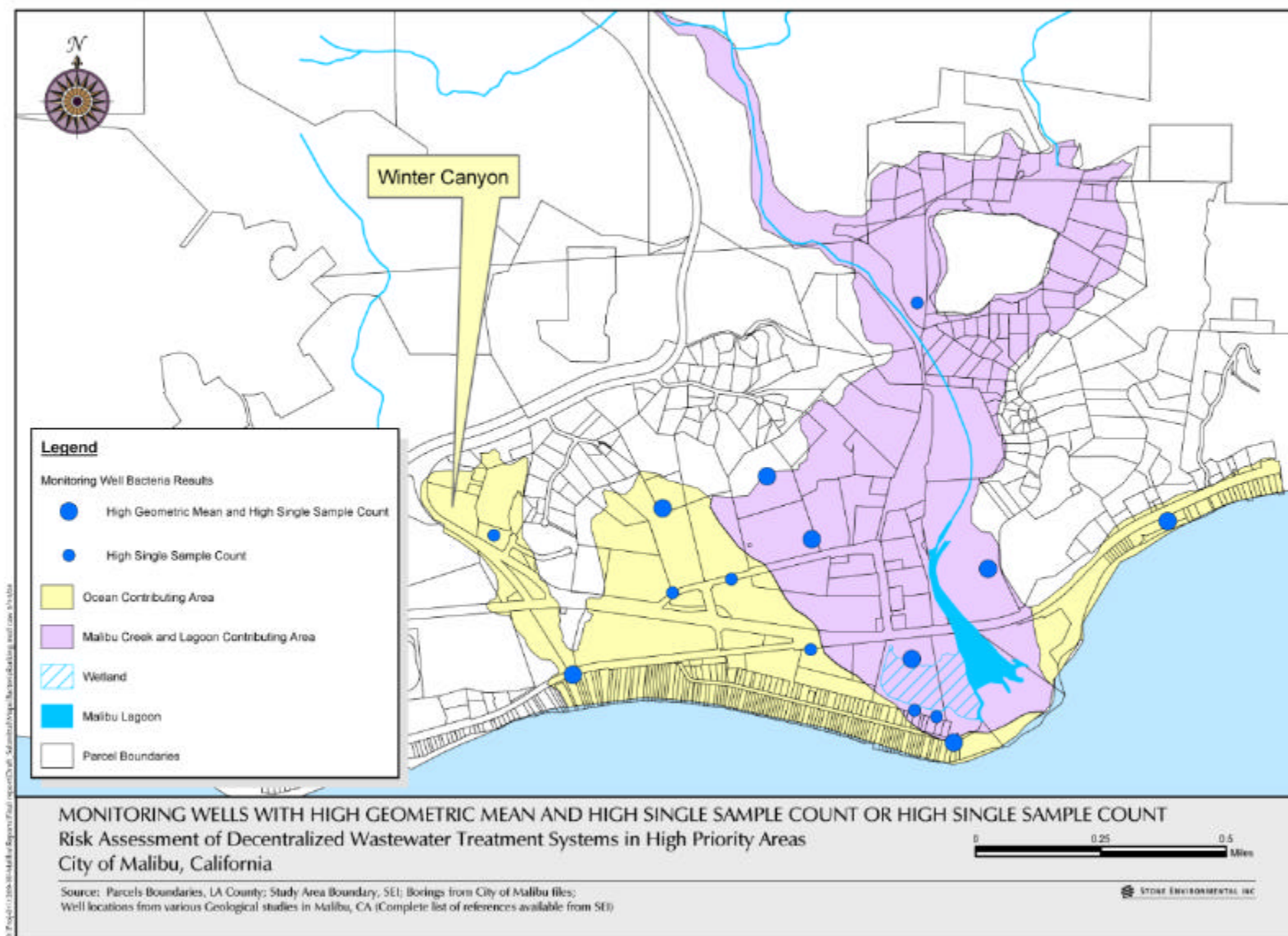
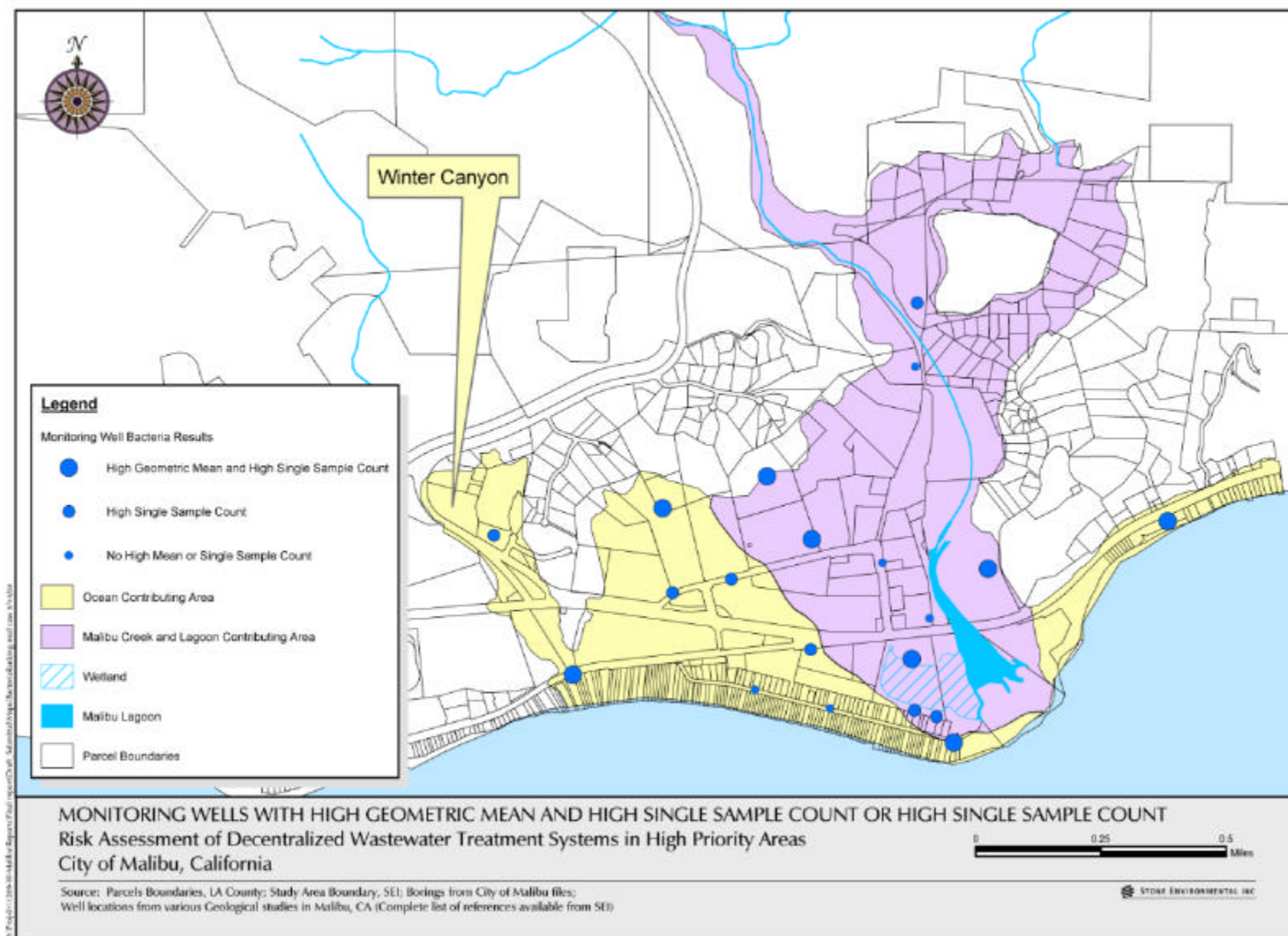


# Bacteria Water Quality Data Summary







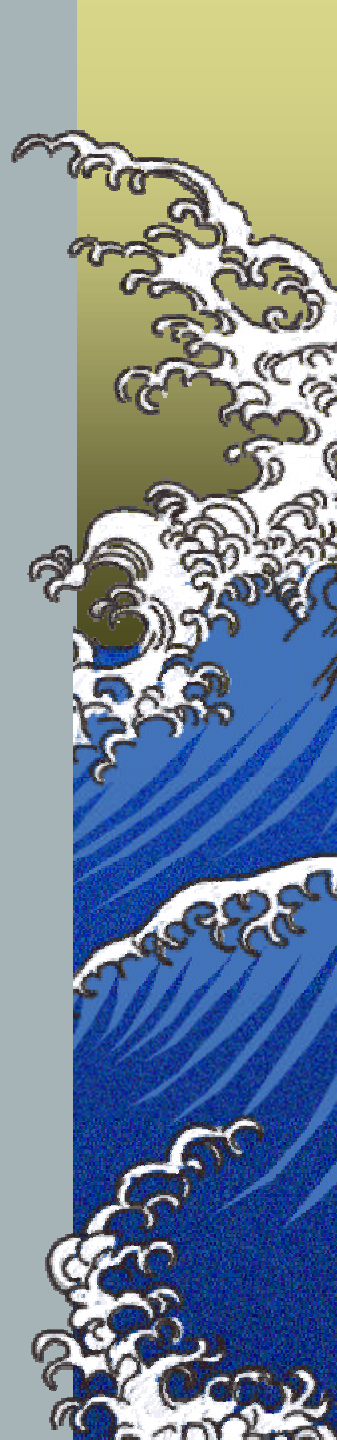




# Bacteria Outcomes

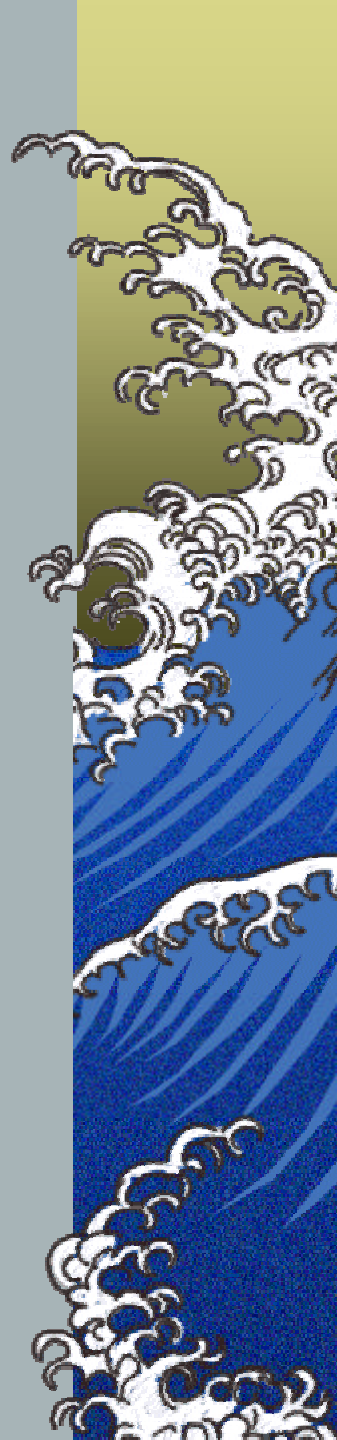
- ▶ *Water Quality in Creek, Lagoon and Beaches*
- ▶ *Current Load: counts/day (LARWQCB TMDL)*
- ▶ *Objective: Contact Recreation Standards<sup>1</sup>*
  - ▶ *Winter Wet Weather: 3 exceedances/year*
  - ▶ *Winter Dry Weather: 1 exceedances/yr*
  - ▶ *SummerDry Weather: 0 exceedances/year*

<sup>1</sup>Weekly Sampling



# Bacteria Removal

- ▶ *Biomat/Unsaturated Flow*
  - ▶ *Vertical Separation to Groundwater*
- ▶ *Die-Off in Groundwater*
  - ▶ *Time of Travel*
  - ▶ *Advanced Treatment/Disinfection*






#### Legend

-  Monitoring Wells
-  Maximum Extent of 0.5 Year Time of Travel
-  Onsite WDR System
-  Offsite WDR System Discharge Site
-  Offsite WDR System Source
-  Residential Onsite System
-  Wetland
-  Malibu Lagoon
-  Parcel Boundaries

**MAP 11: BACTERIA RISK ASSESSMENT - 0 TO 0.5 YEAR TIME OF TRAVEL BOUNDARY**  
**Risk Assessment of Decentralized Wastewater Treatment Systems in High Priority Areas**  
**City of Malibu, California**

Source: Parcels Boundaries, LA County; Study Area Boundary, SEI; Borings from City of Malibu files;  
Well locations from various Geological studies in Malibu, CA (Complete list of references available from SEI)



 **STONE ENVIRONMENTAL INC.**